

Updates on DOI service at DESY



Minting DOIs for FS

Minting DOIs for any public data

Regina Hinzmann, IT-InFa, and Tim Wetzel, IT-RIC

Hamburg, 2025-02-10

Updates on DOI service at DESY



Minting DOIs for FS

Minting DOIs for any public data

Regina Hinzmann, IT-InFa, and Tim Wetzel, IT-RIC

Hamburg, 2025-02-10

WORK...IN PROGRESS.

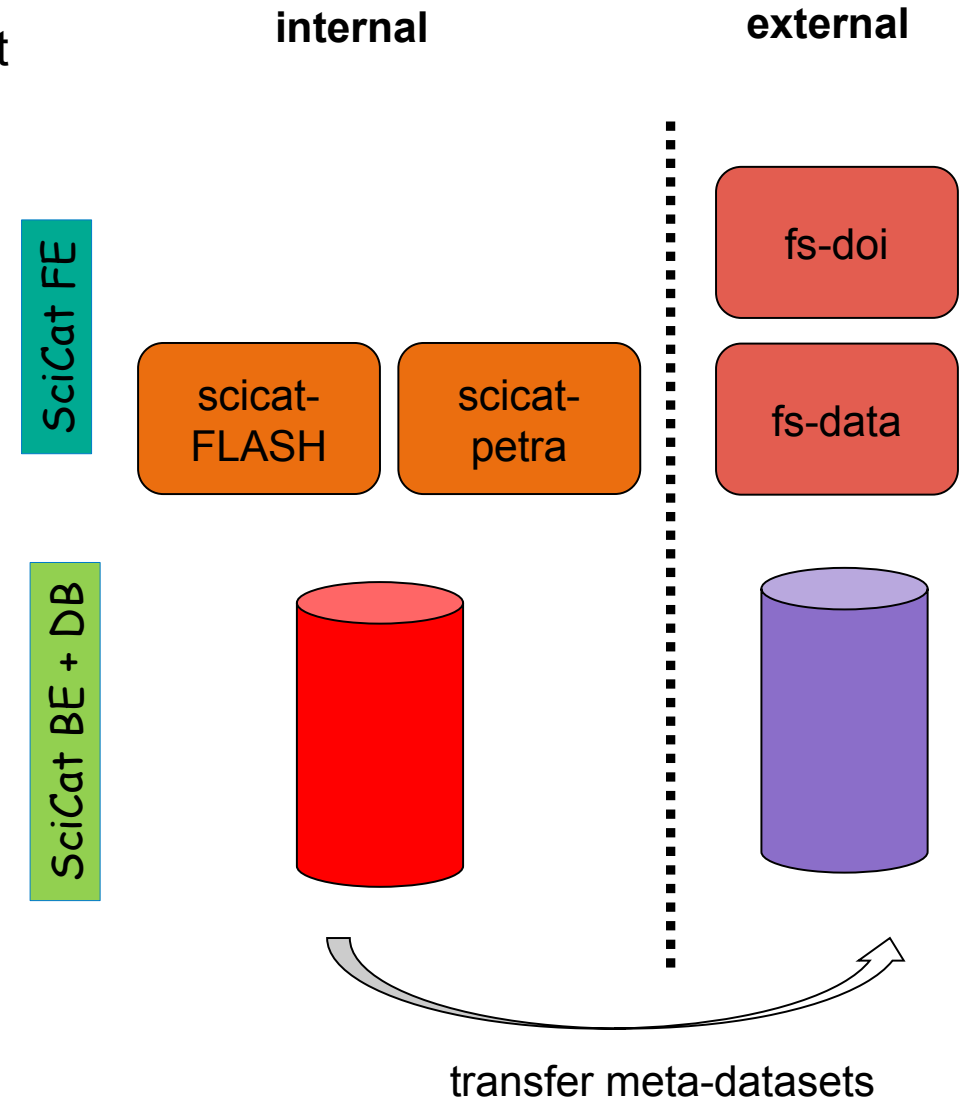
DOI minting service at DESY

- First efforts made to provide a hub of publicly accessible data from anywhere in the world, especially for specific communities e.g. x-ray reflectometry: **public-data.desy.de**
 - Pilot has been successfully running since September 2024.
 - DOI minting for datasets to then appear on public-doi.desy.de
 - Involvement in **several European projects e.g. EOSC Beyond, NFDI, HIFIS, DAPHNE, etc.**
 - **Going productive Q1/2025.**
- For DESY FS there is the need to deal with access rights and embargo periods for datasets.
 - This gave birth to the project with a similar setup but with a different scope and goal: **DOIs for FS.**
 - Scope: all data produced at DESY, i.e. at FLASH and at PETRA.
 - Goal: provide a tool which helps users throughout their work from data taking to publication:
 - finding datasets, selecting for publication, bookkeeping.
 - reserve a DOI and once publication is written or analysis is done: mint the DOI.

WORK...IN PROGRESS.

New: DOI service for FS

- Coordinate efforts to set up a DOI minting service for FS: benefit from IT-RIC efforts **who are involved in several European projects (e.g. EOSC beyond, NFDI, Helmholtz, etc).**
- **Pilot DOI service fo FS will be able to**
 - transfer user selected meta-datasets from internally accessible SciCat to externally accessible SciCat,
 - publish meta-datasets; mint DOIs for meta-datasets.
- **Productive SciCat DOI service for FS will be able to**
 - transfer selected datasets in a user friendly way,
 - enable a more refined DOI minting process, introducing reservation of DOIs for DESY data, automated after embargo period, for better data curation.
- **Timeline** Pilot: anticipated end of Q1/2025



WORK...IN PROGRESS.

Plan of DOI service at DESY

WORK...IN PROGRESS.



public-doi.desy.de

Public Data Repository Dashboard



internal

external

external

A screenshot of the internal scicat-p08-test2.desy.de interface. It shows a list of datasets with columns for Name, Source Folder, Start Time, and Type. A red cylinder represents the SciCat BE + DB database. A vertical dashed line separates the internal interface from the external ones.

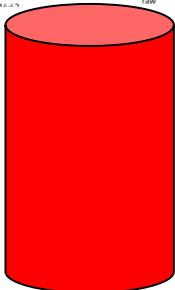
scicat-p08-test2.desy.de

SciCat FE

scicat-FLASH

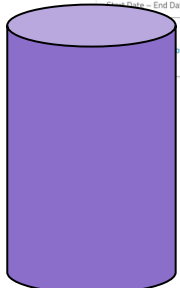
scicat-petra

SciCat BE + DB



fs-doi

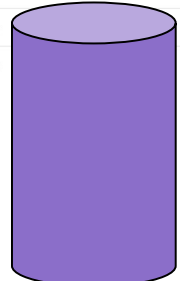
fs-data



public-data.desy.de

public-doi

public-data



anyone providing published data and adhering to a certain metadata schema

transfer meta-datasets

Once stable production has been reached, anticipate consolidation of catalogues.